

AMENDMENTS TO THE CLAIMS:

The following list of claims will replace all prior versions, and listings, of claims. Please amend the claims as follows:

1. (Currently Amended) A method for the selective disassociation of at least one bound glycosaminoglycan ~~bound to~~ from a plasma polymerized surface ~~of an organic monomer~~ including an allylamine, said method comprising:
providing a plasma polymerized surface comprising an allylamine;
coating said plasma polymerized surface with a solution comprising phosphate buffered saline
and at least one glycosaminoglycan;
incubating said coated plasma polymerized surface to induce binding of said at least one
glycosaminoglycan;
washing said incubated coated plasma polymerized surface;
incubating said washed plasma polymerized surface with a solution comprising tumor necrosis
factor-inducible gene 6 protein (TSG-6); and
contacting said surface with at least one agent having a salt concentration of about 500 mM NaCl to about 2 M NaCl, wherein said agent provides for selective disassociation of said at least one bound glycosaminoglycan from said plasma polymerized surface.

2.-5. (Cancelled).

6. (Previously presented) A method according to Claim 1 wherein said glycosaminoglycan is a sulphated biomolecule.

7. (Previously presented) A method according to Claim 1 wherein said glycosaminoglycan is selected from the group consisting of: hyaluronan; dermatan sulfate; chondroitin sulphate; heparin; heparan sulphate; and keratan sulphate.

8.-11. (Cancelled).

12. (Previously Presented) A method according to Claim 1 wherein said surface comprises a plasma polymer of a volatile acid.

13. (Previously Presented) A method according to Claim 12 wherein said surface comprises at least 5% of said volatile acid.

14. (Previously Presented) A method according to Claim 1 wherein said surface comprises a plasma polymer of a volatile alcohol.

15. (Previously Presented) A method according to Claim 1 wherein said surface comprises a plasma polymer of a volatile amine.

16. (Previously Presented) A method according to Claim 1 wherein said surface comprises a mixture of volatile acid and volatile hydrocarbon.

17.-27. (Cancelled).

28. (Previously Presented) A method according to claim 1, wherein said agent has a salt concentration of about 500 mM NaCl to about 1 M NaCl.

29. (Previously Presented) A method according to claim 1, wherein said agent has a salt concentration of about 750 mM NaCl to about 1 M NaCl.

30. (Cancelled).

31. (Previously Presented) A method according to claim 1, wherein said agent has a salt concentration of about 500 mM NaCl to about 750 mM NaCl.

Applicants: Short et al.
Application No: 10/599,943
Amendment Submitted With RCE
Docket No.: P-7735 (102-682 PCT/US/RCE II)
Page 4

32. (New) A method according to claim 1, further comprising detecting at least one bound glycosaminoglycan.